

# **Enterprise Health Management Platform (eHMP)**

## **Enterprise Availability (EA) Site Installation Guide for Release 1.2**



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# 1. Introduction

The Enterprise Health Management Platform (eHMP) project is a multi-year effort to evolve a modern, service-oriented platform which provides a web-based user interface (UI), clinical data services (CDS), and assembles patient clinical data from federated Veterans Health Information Systems and Technology Architecture (VistA) repositories, Department of Defense (DoD), and private partner data sources, reflective of each location providing care to the patient. This federated data is aggregated into an enterprise patient record. eHMP service components will span all application layers, including presentation, business and core services, and data access.

**Release 1.2** introduces critical viewer edition enhancements to provide new capabilities to the Department of Veterans Affairs (VA) beyond what is available today via Computerized Patient Record System (CPRS), Joint Legacy Viewer (JLV), and VistAWeb. The system will provide enhanced presentations of clinical data that will range from trend views that provide a quick snapshot of easily understandable data, to detailed views that provide the user with a full range of options for examining longitudinal patient medical records. Users will be able to configure these views into a limitless number of custom workspaces in order to support a variety of clinical workflows. There will also be multiple pre-configured workspaces available to the user, which are filtered for specific conditions. The workspaces will provide the appropriate clinical information for a selected condition (e.g., COPD, Diabetes). Further enhancements will include improved text search and online application help screens.

## 1.1. Purpose

The purpose of this document is to provide detailed information about how to install, validate, and troubleshoot the eHMP system into a VA-hosted environment. Step-by-step instructions will guide technical personnel through the eHMP installation process.

## 1.2. Scope

There are two separate eHMP accounts in the VA data centers:

- **Test Account:** Also referred to as the pre-production account. This account is where testing of the initial or updated software will be performed.
- **Production Account:** The account in which the software goes live.

The eHMP software resides on servers at either the Austin Information Technology Center (AITC), or the Philadelphia Information Technology Center (PITC). The Kernel Installation and Distribution System (KIDS) build installed at a given site allows connectivity to the eHMP software running on the server in the data center, and is considered a patch to the site's VistA.

Site deployment is divided into three distinct phases:

- Pre-Implementation/Initial Site Setup
- Pre-Production/Test Account Implementation
- Production Account Implementation

Section 2 details the required steps each site must perform in order to successfully install eHMP.

Section 3 describes trouble ticket handling.

Checklists for each phase of installation can be found in Appendices B.1 through B.3.

## 2. EA Site Installation

Prior to installation, the team from ASM Research, hereafter referred to as Team ASM, will provide a release package that includes:

- An introduction to Team ASM, with their contact information.
- What to expect during the installation process.
- EA Site Installation Guide for v1.2.

Team ASM will monitor the site before, during, and after installation.

### 2.1. EA Pre-Implementation/Initial Site Setup

The detailed steps for pre-implementation and site setup follow. See Appendix B.1 for the site pre-implementation/initial site setup steps in checklist format.

**Step 1:** Site Office of Information and Technology (OI&T) and Veterans Health Administration (VHA) staff provide a point of contact (POC) list to Team ASM. The POCs should include:

- The Clinical Applications Coordinator (CAC).
- Site or regional OI&T personnel, who will be involved with the deployment.
- The Facility Chief Information Officer (FCIO), who will provide the authority to deploy software into the sites' test and production accounts.

**Step 2:** Site/regional OI&T to provide the following information that is used to configure communications between the data center and the site. Please **send the information encrypted to REDACTED**. Team ASM must have this information before starting the Operational Data Sync (ODS).

- Fully Qualified Domain Name (FQDN)
- Remote Procedure Call (RPC) Port for the VistA server
- Station Identification (ID) Name & Number
- Hostname/IP Address
- Setup Secure Shell (SSH) User and Password for connection to the above hostname
- Division (facility number) from Medical center division file
- Access/Verify codes for eHMP proxy user (please see Section 2.2, step 1 of the EA Installation Guide for information)
- Site Hash code for both Test & Production accounts (see Step 3 for how to obtain this code)

**Step 3:** Site/region OI&T to obtain the eHMP VistA Site Hash Code and provide to Team ASM (sirius-ops@asmr.com).

**NOTE:** This must be done for BOTH the TEST/PRE-PROD account AND the PRODUCTION account.

- a. Local Information Resource Management (IRM)/User must be in developer mode on their local VistA (must have a Massachusetts General Hospital Utility Multi-Programming System (MUMPS) prompt).

- b. Local IRM/User must execute the following command to obtain this information on both the Test/Pre-Prod and Production accounts:

```
VISTA>  
VISTA>W $$SYS^HMPUTILS  
9E7A (9E7A is an example of a hash code)  
VISTA>
```

- c. Once you have obtained the hash code, please provide it to Team ASM (sirius-ops@asmr.com).

**NOTE:** The eHMP VistA Site Hash Code is a HASHed encryption of the domain name. It is reported back to eHMP so that it knows what VistA instance/server is called and that JavaScript Object Notation (JSON), Data Store (JDS) and eHMP understand what system that is Step 5: Team ASM to validate the eHMP VistA Site Hash Codes.

**Step 4:** Team ASM to validate the Station ID with the site.

**Step 5:** OI&T and VHA to work with sites to identify up to 25 users. Provisioning requests should be sent to AID NLT XX.

## 2.2. EA Pre-Production/Test Account Implementation

The detailed steps for EA pre-production/test account implementation follow. See Appendix B.2 for the EA pre-production/test account steps in checklist format.

**Step 1:** Team ASM will send the site an e-mail, which will provide installation instructions, Release Notes, Patch Description and where to download the host files via SFTP.

Upon this initial installation, a script will run creating a proxy/system account. This step occurs only once with the initial installation.

**NOTE:** Sometimes the proxy user account is not created automatically. In this case, the onsite OI&T person will need to create it manually or to edit fields to make sure all necessary attributes are assigned. This is a necessary step to enable the ODS.

**Use the option User Inquiry [XUSERINQ] to review the access that was established during the installation of the HMP 2.0 KIDs Package.**

Verify that the HMP,APPLICATION PROXY user has the following attributes assigned:

- Name
- Initials
- Multiple sign-on allowed.
- Primary menu is XMUSER.
- Verify code doesn't expire.
- ACCESS CODE and VERIFY CODE are set.
- Restrict Patient Selection – Is set to No.
- Security Keys – HMP ADMIN and PROVIDER keys have been assigned.
- CPRS Tab – Is set to COR
- Secondary Menu Options – The following have been assigned:
  - HMP UI Context Version 0.7-S62 [HMP UI CONTEXT]

- Synchronize the HMP [HMP SYNCHRONIZATION CONTEXT]

If any of these items are not set appropriately, use the Edit an Existing User [XUSEREDIT] option to make the changes, as depicted in Table 2-1.

Table 2-1 Manage Proxy User Accounts (Create/Edit)

Proxy User Account Management
<pre> Select User Management &lt;TEST ACCOUNT&gt; Option: ??   Add a New User to the System [XUSERNEW]   Grant Access by Profile [XUSERBLK]     **&gt; Locked with XUMGR   Edit an Existing User [XUSEREDIT]   Deactivate a User [XUSERDEACT]   Reactivate a User [XUSERREACT]   List users [XUSERLIST]   User Inquiry [XUSERINQ] Switch   Identities [XUTESTUSER]   File Access Security ... [XUFILEACCESS]   Clear Electronic signature code [XUSESIG CLEAR]     **&gt; Locked with XUMGR   Electronic Signature Block Edit [XUSESIG BLOCK]   List Inactive Person Class Users [XU-INACTIVE PERSON CLASS USERS]   Manage User File ... [XUSER FILE MGR]   OAA Trainee Registration Menu ... [XU-CLINICAL TRAINEE MENU]   Person Class Edit [XU-PERSON CLASS EDIT]   Reprint Access agreement letter [XUSERREPRINT] Select User Management &lt;TEST ACCOUNT&gt; Option: User Inquiry Select NEW PERSON NAME:   HMP,APPLICATION PROXY      PU DEVICE: ;;999 TELNET PORT   Right Margin: 80// HMP,APPLICATION PROXY (#1000000282) ----- Service/Section:  ATTRIBUTES -----   Creator .....PROGRAMMER,ONE          Date entered.....Mar 25, 2016   Mult Sign-on ...                      Fileman codes .....   Time-out .....                        Type-ahead .....   Title .....                           Office Phone .....   Auto-Menu .....                       Voice Pager .....   Last Sign-on ...                      Digital Pager .....   Has a E-SIG ....No                   Write Med's .....   NPI .....                             Taxonomy .....   Person Class:  Primary Menu: XMUSER                    MailMan Menu Secondary Menu(s) -----   [HMP UI CONTEXT]                      HMP UI Context Version 0.7-S62   [HMP SYNCHRONIZATION CONTEXT]        Synchronize the HMP Keys Held -----   HMP ADMIN          PROVIDER Patient Selection -----   Restrict?: NO OE/RR List: CPRS Access Tabs -----   Name Description                      Effective   Expiration   -----   COR   CPRS GUI "core" tabs. CPRS Parameter info (User Specific) </pre>

No Mailbox for this user.

Use the VA FileMan Inquiry [DIINQUIRE] option to verify that the following are set in the NEW PERSON FILE (#200), as displayed in Table 2-2.

- Verify Code never expires {#7.2) is set to Yes
- User Class (#9.5)
  - User Class (#.01) – is set to APPLICATION PROXY
  - ISPRIMARY (#2) – is set to Yes

**Table 2-2 Verifying Proxy Accounts**

Proxy Account Verification
<pre> Select VA FileMan &lt;TEST ACCOUNT&gt; Option: ??   Enter or Edit File Entries [DIEDIT]   Print File Entries [DIPRINT] Search   File Entries [DISEARCH] Modify   File Attributes [DIMODIFY] Inquire   to File Entries [DIINQUIRE] Utility   Functions ... [DIUTILITY]   Data Dictionary Utilities ... [DI DDU]   Transfer Entries [DITRANSFER]   Other Options ... [DIOOTHER] OUTPUT FROM WHAT FILE: NEW PERSON// Select NEW PERSON NAME: HMP,APPLICATION PROXY          PU ANOTHER ONE: STANDARD CAPTIONED OUTPUT? Yes// N (No) FIRST PRINT FIELD: .01 NAME THEN PRINT FIELD: 7.2;C1 VERIFY CODE never expires THEN PRINT FIELD: 9.5;C1 USER CLASS   THEN PRINT USER CLASS SUB-FIELD: .01;C1 User Class   THEN PRINT USER CLASS SUB-FIELD: 2 ISPRIMARY   THEN PRINT USER CLASS SUB-FIELD: THEN PRINT FIELD: Heading (S/C): NEW PERSON LIST// STORE PRINT LOGIC IN TEMPLATE: DEVICE: TELNET PORT   Right Margin: 80// NEW PERSON LIST                                MAY 9,2016 09:27   PAGE 1 NAME VERIFY CODE never expires User Class                                ISPRIMARY ----- HMP,APPLICATION PROXY Yes APPLICATION PROXY                                Yes           </pre>

If these two items are not set appropriately, use the Enter or Edit File Entries [DIEDIT] options to make the changes.

**NOTE:** You must use SFTP (Secure FTP) to connect to the FTP site, otherwise you will not be able to connect.

- a. Upon receipt of the SFTP information: Enter the address in a browser or use the uniform resource locator (URL) provided.
- b. When prompted for user credentials, enter the following:
  - Username: xxxx
  - Password: xxxx

- c. Proceed to the directory listing, and download the KIDS multi-build which will contain two distinct patches that will need to be loaded in the order listed below:
- **HMP\_PREREQ\_BUNDLE\_2-0.KID** – The pre-requisite patch is the multi-build, which will install 7 different patches (see Table 2-3).

**Table 2-3 Multi-Build Patches**

Patch	Application
GMRC*3.0*80	Consults/Request Tracking
TIU*1.0*106	Text Integration Utility (TIU)
PSB*3.0*79	Bar Code Medication Administration (BCMA)
OR*3.0*390	Order Entry/Results Reporting (OERR)
MD*1.0*38	Clinical Procedures
USR*1.0*37	USR Rules component
TIU*1.0*298	TIU Rules component

- **HMP\_2-0.KID** –Please see associated patch description documentation for the correct version name.

Table 2-4 contains only a single patch with the eHMP code.

**Table 2-4 HMP Patch**

Patch	Application
HMP*2.0	eHMP Version 1.2

**Step 2: Install PSB\*3.0\*94 Patch.**

- PSB\*3.0\*94 is an emergency release but will have a compliance date of 6/10/2016 due to the controlled rollout of eHMP and the requirement to install PSB\*3.0\*94 after PSB\*3.0\*79. Any site that has installed PSB\*3.0\*79 in their Production account must install PSB\*3\*94 immediately. All other sites will install PSB\*3.0\*94 as part of the eHMP phased implementation.
- Patch PSB\*3\*94 is considered part of the phased implementation schedule for eHMP, as it **CANNOT** be installed until PSB\*3\*79 is installed. This patch needs to be installed after installing the HMP PREREQUISITE BUNDLE which contains the PSB\*3.0\*79 patch.

**NOTE: This patch should be installed when NO BCMA Client users are on the system. Users should remain off the system until the post-processor has finished running.** This post processor has a reduced scope which should reduce the time to run, but its run time could still be more than 30 minutes.

Install PSB Patch. Installation instructions can be found in the PSB Patch Description, but they are also documented in Table 2-5.

**Table 2-5 PSB Patch Installation Instructions**

<b>PSB Patch Installation Instructions</b>
<ol style="list-style-type: none"><li>1. Choose the PackMan message containing this patch.</li><li>2. Choose the INSTALL/CHECK MESSAGE PackMan option.</li><li>3. From the Kernel Installation and Distribution System Menu, select the Installation Menu. From this menu, you may elect to use the following option. When prompted for the INSTALL enter the patch # (PSB*3.0*94):<ol style="list-style-type: none"><li>a. Backup a Transport Global - This option will create a backup message of any routines exported with this patch. It will not backup any other changes such as DD's or templates.</li><li>b. Compare Transport Global to Current System - This option will allow you to view all changes that will be made when this patch is installed. It compares all components of this patch (routines, DD's, templates, etc.).</li><li>c. Verify Checksums in Transport Global - This option will allow you to ensure the integrity of the routines that are in the transport global.</li></ol></li><li>4. From the Installation Menu, select the Install Package(s) option and choose the patch to install. Enter PSB*3.0*94.</li><li>5. When prompted 'Want KIDS to Rebuild Menu Trees Upon Completion of Install? NO//', respond NO.</li><li>6. When prompted 'Want KIDS to INHIBIT LOGONS during the install? NO//', respond NO.</li><li>7. When prompted 'Want to DISABLE Scheduled Options, Menu Options, and Protocols? NO//', respond NO.</li><li>8. If prompted 'Delay Install (Minutes): (0 - 60): 0//', respond 0.</li></ol>

The routine PSB394P is automatically deleted when the installation is complete.

**Step 3:** Site/region OI&T to perform the following actions prior to installation:

- Verify Checksums in Transport Global.
- Print Transport Global.
- Compare Transport Global to Current System.
- Backup a Transport Global.

**Step 4:** Installation instructions for site/region OI&T:

- This patch may be installed with users on the system, although it is recommended that it be installed during non-peak hours to minimize a potential disruption. This patch should take 5-10 minutes to install. See Table 2-6 for an example of installing patch HMP PREREQUISITE BUNDLE 2.0.

**NOTE:** There is a specific sequence for installing the two parts of the KIDS build. The HMP PREREQUISITE BUNDLE 2.0 patch must be installed first, followed by the install of HMP 2.0. The KIDS build will not install unless the HMP PREREQUISITE BUNDLE 2.0 build is loaded and installed first. See Table 2-7 for an example of installing patch HMP 2.0.

**NOTE:** This install cannot be queued. During the installation the installer will be prompted to enter in the name of the coordinator for the Mail Group 'HMP IRM GROUP'.

**Installation Procedure:**

1. Verify that you are in the Test Account.
2. From the installation menu, select *Load a Distribution*.

3. When prompted for *Enter a Host File*: Enter **HMP\_PREREQ\_BUNDLE\_2-0.KID** (You may need to prefix a directory name).
4. Want to continue with load? YES//, respond **YES**.
5. From the KIDS, select the *Installation menu*.
6. From this menu, use the following option – *Install Package(s)*.
7. When prompted for *Select INSTALL NAME*: Enter **HMP PREREQUISITE BUNDLE 2.0**.
8. When prompted - *Want KIDS to Rebuild Menu Trees upon Completion of Install*: NO// respond **NO**.
9. When prompted - *Want KIDS to INHIBIT LOGONs during the install*? NO// respond **NO**.
10. When prompted - *Want to DISABLE Scheduled Options, and Protocols*? NO// respond **NO**.
11. *Install Completed* First KIDS install package has now been installed. You must now install the second KIDS patch.
12. From the installation menu, select Load a Distribution.
13. When prompted for *Enter a Host File*: Enter the host file **HMP\_2-0KID** (You may need to prefix a directory name).
14. *What to continue with load*? YES// respond **YES**.
15. From the Installation menu, select *Install Package(s)*.
16. When prompted for *Select INSTALL NAME*: Enter **HMP 2.0**.
17. Enter the Coordinator for Mail Group 'HMP IRM GROUP': **XXXXXX** (enter the name of the site specific mail group coordinator).

**NOTE:** HMP IRM GROUP – This mail group was created for one purpose, to alert IRM staff should our threshold use value (the amount of space we use in ^XTMP (temporary file storage in VistA) be exceeded for more than 5 minutes. An email will be sent to the coordinator that the threshold usage of ^XTMP has been above the limit for 5 minutes for them to check the status of ^XTMP.

18. *Install Completed* KIDS install of both patches is now complete.

**NOTE:** If you have additional installations of a KIDS patch, when you install you will see an error message stating that you have already installed this patch. Ignore this error and proceed with the patch installation.

**NOTE: Step 5 follows after the screen captures.**

**Table 2-6 HMP PREREQUISITE BUNDLE 2.0 Screen Capture**

<b>Example for Installing Patch HMP PREREQUISITE BUNDLE 2.0:</b>
Select Installation <TEST ACCOUNT> Option: 6 Install Package(s)
Select INSTALL NAME: HMP PREREQUISITE BUNDLE 2.0 3/4/16@09:28:09
=> HMP PREREQUISITE BUNDLE 2.0 v2.9 ;Created on Jan 14, 2016@17:59:57
This Distribution was loaded on Mar 04, 2016@09:28:09 with header of
HMP PREREQUISITE BUNDLE 2.0 v2.9 ;Created on Jan 14, 2016@17:59:57
It consisted of the following Install(s):
HMP PREREQUISITE BUNDLE 2.0 MD*1.0*38 OR*3.0*390 PSB*3.0*79
TIU*1.0*106 GMRC*3.0*80 USR*1.0*37 TIU*1.0*298
Checking Install for Package HMP PREREQUISITE BUNDLE 2.0
Install Questions for HMP PREREQUISITE BUNDLE 2.0

## Example for Installing Patch HMP PREREQUISITE BUNDLE 2.0:

```
Checking Install for Package MD*1.0*38
Install Questions for MD*1.0*38 Checking
Install for Package OR*3.0*390 Install
Questions for OR*3.0*390 Checking
Install for Package PSB*3.0*79 Install
Questions for PSB*3.0*79 Checking
Install for Package TIU*1.0*106 Install
Questions for TIU*1.0*106 Checking
Install for Package GMRC*3.0*80 Install
Questions for GMRC*3.0*80 Checking
Install for Package USR*1.0*37 Install
Questions for USR*1.0*37 Checking
Install for Package TIU*1.0*298 Install
Questions for TIU*1.0*298
Want KIDS to Rebuild Menu Trees Upon Completion of Install? NO//
Want KIDS to INHIBIT LOGONs during the install? NO//
Want to DISABLE Scheduled Options, Menu Options, and Protocols? NO//
Enter the Device you want to print the Install messages.
You can queue the install by enter a 'Q' at the device prompt.
Enter a '^' to abort the install.
DEVICE: HOME// TELNET PORT
```

```
-----
Install Started for HMP PREREQUISITE BUNDLE 2.0 :
      Mar 04, 2016@09:29:29
Build Distribution Date: Jan 14, 2016
Installing Routines:
      Mar 04, 2016@09:29:29
Install Started for MD*1.0*38 :
      Mar 04, 2016@09:29:29
Build Distribution Date: Jan 14, 2016
Installing Routines:
      Mar 04, 2016@09:29:29
Installing PACKAGE COMPONENTS:
Installing PROTOCOL
  Located in the MD (CLINICAL PROCEDURES) namespace.
      Mar 04, 2016@09:29:29
Running Post-Install Routine: EN^MDPOST38
Updating Routine file...
Updating KIDS files...
MD*1.0*38 Installed.
      Mar 04, 2016@09:29:30
Install Message sent
Install Started for OR*3.0*390 :
      Mar 04, 2016@09:29:30
Build Distribution Date: Jan 14, 2016
Installing Routines:
      Mar 04, 2016@09:29:30
Installing PACKAGE COMPONENTS:
Installing PROTOCOL
  Located in the OR (ORDER ENTRY/RESULTS REPORTING) namespace.
      Mar 04, 2016@09:29:30
Updating Routine file...
Updating KIDS files...
OR*3.0*390 Installed.
      Mar 04, 2016@09:29:30
Install Message sent
Install Started for PSB*3.0*79 :
      Mar 04, 2016@09:29:30
Build Distribution Date: Jan 14, 2016
Installing Routines:
      Mar 04, 2016@09:29:30
Installing PACKAGE COMPONENTS:
Installing PROTOCOL
  Located in the PSB (BAR CODE MED ADMIN) namespace.
      Mar 04, 2016@09:29:30
Updating Routine file...
Updating KIDS files...
```

### Example for Installing Patch HMP PREREQUISITE BUNDLE 2.0:

```
PSB*3.0*79 Installed.
      Mar 04, 2016@09:29:30
Install Message sent
Install Started for TIU*1.0*106 :
      Mar 04, 2016@09:29:30
Build Distribution Date: Jan 14, 2016
Installing Routines:
      Mar 04, 2016@09:29:30
Running Post-Install Routine: MAIN^TIUPS106
Creating index definition ...
Compiling TIU ENTER/EDIT DS Input Template of File 8925.....
'TIUEDS1' ROUTINE FILED...
'TIUEDS2' ROUTINE FILED..
'TIUEDS3' ROUTINE FILED.
'TIUEDS4' ROUTINE FILED.
'TIUEDS' ROUTINE FILED.....
'TIUEDS5' ROUTINE FILED.
'TIUEDS6' ROUTINE FILED.
Compiling TIU ENTER/EDIT PROGRESS NOTE Input Template of File 8925.....
'TIUENP1' ROUTINE FILED.
'TIUENP2' ROUTINE FILED..
'TIUENP3' ROUTINE FILED..
'TIUENP4' ROUTINE FILED.
'TIUENP5' ROUTINE FILED..
'TIUENP6' ROUTINE FILED.
'TIUENP7' ROUTINE FILED..
'TIUENP8' ROUTINE FILED.
'TIUENP9' ROUTINE FILED.
'TIUENP' ROUTINE FILED.....
'TIUENP11' ROUTINE FILED.
'TIUENP12' ROUTINE FILED..
'TIUENP10' ROUTINE FILED.
'TIUENP13' ROUTINE FILED.
Compiling Cross-Reference(s) 8925 of File 8925.
...HMMM, THIS MAY TAKE A FEW MOMENTS...
'TIUXRC1' ROUTINE FILED.
'TIUXRC2' ROUTINE FILED.
'TIUXRC3' ROUTINE FILED.
'TIUXRC4' ROUTINE FILED.
'TIUXRC' ROUTINE FILED.
Updating Routine file...
Updating KIDS files...
TIU*1.0*106 Installed.
      Mar 04, 2016@09:29:30
Install Message sent
Install Started for GMRC*3.0*80 :
      Mar 04, 2016@09:29:30
Build Distribution Date: Jan 14, 2016
Installing Routines:
      Mar 04, 2016@09:29:30
Updating Routine file...
Updating KIDS files...
GMRC*3.0*80 Installed.
      Mar 04, 2016@09:29:30
Install Message sent
Install Started for USR*1.0*37 :
      Mar 04, 2016@09:29:30
Build Distribution Date: Jan 14, 2016
Installing Routines:
      Mar 04, 2016@09:29:30
Updating Routine file...
Updating KIDS files...
USR*1.0*37 Installed.
      Mar 04, 2016@09:29:30
Install Message sent
Install Started for TIU*1.0*298 :
      Mar 04, 2016@09:29:30
```

### Example for Installing Patch HMP PREREQUISITE BUNDLE 2.0:

```
Build Distribution Date: Jan 14, 2016
Installing Routines:
    Mar 04, 2016@09:29:30
  Installing PACKAGE COMPONENTS:
Installing OPTION
    Mar 04, 2016@09:29:30
Updating Routine file...
Updating KIDS files...
TIU*1.0*298 Installed.
    Mar 04, 2016@09:29:30
Install Message sent
Updating Routine file...
Updating KIDS files...
HMP PREREQUISITE BUNDLE 2.0 Installed.
    Mar 04, 2016@09:29:30
No link to PACKAGE file
Install Completed
```

Table 2-7 HMP 2.0 Screen Capture

### Example for Installing Patch HMP 2.0:

```
Select Installation <TEST ACCOUNT> Option: 6 Install Package(s)
Select INSTALL NAME: HMP 2.0 3/4/16@10:03:21
=> Enterprise Health Management Platform Release ;Created on Mar 04, 201
This Distribution was loaded on Mar 04, 2016@10:03:21 with header of
Enterprise Health Management Platform Release ;Created on Mar 04, 2016@09:56
:20
  It consisted of the following Install(s):
    HMP 2.0
Checking Install for Package HMP 2.0
Incoming Files:
  800000 HMP SUBSCRIPTION
  800000.1 HMP PATIENT OBJECT
  800000.11 HMP OBJECT (including data)
  800000.2 HMP LIST (including data)
    HMP LIST DOMAIN (including data)
    HMP LIST ATTRIBUTE (including data)
  800001 HMP PANEL
  800001.2 HMP ROSTER
    HMP ACTIVITY
  Incoming Mail
  Groups:
Enter the Coordinator for Mail Group 'HMP IRM GROUP': XXX,XXX
EC 113 COMPUTER SPECIALIST
Want KIDS to Rebuild Menu Trees Upon Completion of Install? YES//
Want KIDS to INHIBIT LOGONS during the install? NO//
Want to DISABLE Scheduled Options, Menu Options, and Protocols? NO//
Enter the Device you want to print the Install messages.
You can queue the install by enter a 'Q' at the device prompt.
Enter a '^' to abort the install.
DEVICE: HOME// TELNET PORT
-----
Install Started for HMP 2.0 :
    Mar 04, 2016@10:04:06
Build Distribution Date: Feb 23, 2016
Installing Routines:
    Mar 04, 2016@10:04:06
Running Pre-Install Routine: PRE^HMPP3I
Installing Data Dictionaries:
    Mar 04, 2016@10:04:06
Installing Data:
    Mar 04, 2016@10:04:06
Installing PACKAGE COMPONENTS:
Installing SECURITY KEY
Installing MAIL GROUP
Installing HL7 APPLICATION PARAMETER
Installing PROTOCOL
```

### Example for Installing Patch HMP 2.0:

```
Located in the HMP (HEALTH MANAGEMENT PLATFORM) namespace.
Installing REMOTE PROCEDURE
Installing LIST TEMPLATE
Installing OPTION
Installing PARAMETER DEFINITION
    Mar 04, 2016@10:04:06
Running Post-Install Routine: POST^HMPP3I
    Starting post-install
    User HMP,APPLICATION PROXY added
    The following HMP,APPLICATION PROXY fields were updated:
    INITIALS, ACCESS CODE, SIGNATURE BLOCK, RESTRICT PATIENT SELECTION, PRIMARY MENU
    OPTION
    The following sub-files for user HMP,APPLICATION PROXY were updated:
    KEYS, CPRS TAB, SECONDARY MENU OPTIONS
    The following sub-files for user HMP,APPLICATION PROXY were updated:
    User Class - APPLICATION PROXY
Disabling INDEX entries for Clinical Procedures Mar 04, 2016@09:33:40
routine: HMPZ0218
looking for INDEX: 702^AVPR^Trigger updates to VPR^
examining ^DD("IX",NNN,0)
    "702^AVPR^Trigger updates to VPR^MU^R^^I^702^A"
value found in ^DD("IX",NNN,1) was:
    "I $T(UPD^VPRPROC)]" D UPD^VPRPROC(X2(1),DA_";MDD(702,)"
updated to "Q ;I $T(UPD^VPRPROC)]" D UPD^VPRPROC(X2(1),DA_";MDD(702,)"
value found in ^DD("IX",NNN,2) was:
    "I $T(DEL^VPRPROC)]" D DEL^VPRPROC(X1(1),DA_";MDD(702,)"
updated to "Q ;I $T(DEL^VPRPROC)]" D DEL^VPRPROC(X1(1),DA_";MDD(702,)"
INDEX entry completed Mar 04, 2016@09:33:40
HMP0311P post-init routine started Mar 04, 2016@09:33:40
Old data saved in ^XTMP("HMP INSTALL LOG",3160304.09334)
HMP DGPFF ASSIGN FLAG protocol update finished Mar 04, 2016@09:33:40
HMP0311Q post-init routine started Mar 04, 2016@09:33:40
PROTOCOL HMP ADT-A04 CLIENT IS NOW SUBSCRIBED TO VAFC ADT-A04 SERVER.
PROTOCOL HMP ADT-A08 CLIENT IS NOW SUBSCRIBED TO VAFC ADT-A08 SERVER.
HMP ADT-A0# CLIENT protocols subscribed Mar 04, 2016@09:33:40
Adding domain object average sizes to HMP DOMAIN SIZES parameter...
    o patient domain sizes added
    o operational domain sizes added
Updating Routine file...
Updating KIDS files...
HMP 2.0 Installed.
    Mar 04, 2016@10:04:06
Install Message sent
```

**Example for Installing Patch HMP 2.0:**

```

Call MENU rebuild
Starting Menu Rebuild: Mar 04, 2016@10:04:08
Collecting primary menus in the New Person file...
      Primary menus found in the New Person file
-----
OPTION NAME      MENU TEXT                # OF   LAST   LAST
                   USERS        USED   BUILT
DIUSER          VA FileMan              111    04/28/02 03/04/16
XMUSER          MailMan Menu            30     05/19/15 03/04/16
EVE             Systems Manager Menu    181    03/04/16 03/04/16
Building secondary menu trees....
Merging.... done.
Install Completed
  
```

**Step 5:** Team ASM will confirm with site/region OI&T that access verify codes are current, and will document their expiration dates. The verify codes are associated with the proxy account. During the initial installation, a script will run creating the proxy/system account. This step occurs only once with the initial installation.

**Step 6:** OI&T to perform standard VistA testing to ensure correct functioning of VistA after the successful installation of the KIDS Patch.

**Step 7:** Provide VistA protocol validation installation instructions for site/region OI&T. The following steps are provided to verify that VistA protocols have not been harmed, and should be performed immediately after the KIDS installation:

- a. Use FileMan to look at each trigger protocol affected by the KIDS build (see Table 2-8 and Table 2-9). A sample is provided in Table 2-10 Protocol Modifications Screen Capture.
- b. Use ^ITEM to go to the Item listing.
- c. Use “?” to list the entire ITEM list connected to the protocol.
- d. Ensure a protocol with HMP is listed.
- e. Ensure that protocol is last in the listing.

**Table 2-8 VistA Functional Areas/Protocols Affected**

VistA Package	Name	Item
Allergies	GMRA SIGN-OFF ON DATA	HMP GMRA EVENTS
Allergies	GMRA ENTERED IN ERROR	HMP GMRA EVENTS
Appointments	SDAM APPOINTMENT EVENTS	HMP APPT EVENTS
BCMA	PSB EVSEND VPR	HMP PSB EVENTS
Clinical Procedures	MDC OBSERVATION UPDATE	HMP MDC EVENT
Consults	GMRC EVSEND OR	HMP XQOR EVENTS
Dietetics	FH EVSEND OR	HMP XQOR EVENTS
Laboratory	LR70 CH EVSEND OR	HMP XQOR EVENTS
Orders	OR EVSEND VPR	HMP XQOR EVENTS
Orders Consults	OR EVSEND GMRC	HMP NA EVENTS
Orders Dietetics	OR EVSEND FH	HMP NA EVENTS

VistA Package	Name	Item
Orders Generic Message	OR EVSEND ORG	HMP XQOR EVENTS
Orders Lab	OR EVSEND LRCH	HMP NA EVENTS
Orders Pharmacy	OR EVSEND PS	HMP NA EVENTS
Orders Radiology	OR EVSEND RA	HMP NA EVENTS
Pharmacy	PS EVSEND OR	HMP XQOR EVENTS
Problem List	GMPL EVENT	HMP GMPL EVENT
Radiology	RA EVSEND OR	HMP XQOR EVENTS
Record Flag Assignment	DGPF ASSIGN FLAG	HMP DGPF ASSIGN FLAG
Registration	DG FIELD MONITOR	HMP DG UPDATES
Registration/Patient Movement	DGPM MOVEMENT EVENTS	HMP INPT EVENTS
Scheduling	SCMC PATIENT TEAM CHANGES	HMP PCMM TEAM
Scheduling	SCMC PATIENT TEAM POSITION CHANGES	HMP PCMM TEAM POSITION
Visit	PXK VISIT DATA EVENT	HMP PCE EVENTS

**Table 2-9 VistA Functional Areas/Protocol List/Subscribers**

VistA Package	Name	Subscribers
Patient Registration	VAFC ADT-A04 SERVER	RG ADT-A04 TRIGGER VBECs ADT-A04 CLIENT HMP ADT-A04 CLIENT
Patient Registration	VAFC ADT-A08 SERVER	RG ADT-A08 TRIGGER VBECs ADT-A08 CLIENT HMP ADT-A08 CLIENT

**Table 2-10 Protocol Modifications Screen Capture**

Protocol Modification Example:
<pre> VISTA&gt;D P^DI VA FileMan 22.0 Select OPTION: 1 ENTER OR EDIT FILE ENTRIES INPUT TO WHAT FILE: PROTOCOL// EDIT WHICH FIELD: ALL// Select PROTOCOL NAME: SDAM APPOINTMENT EVENTS Appointment Event Driver NAME: SDAM APPOINTMENT EVENTS Replace ^ITEM 1 ITEM 2 ITEM TEXT CHOOSE 1-2: 1 ITEM Select ITEM: HMP APPT EVENTS//? Answer with ITEM Do you want the entire 21-Entry ITEM List? Y (Yes) Choose from: IBACM OP LINK </pre>

**Protocol Modification Example:**

```

ORU PATIENT MOVMT
DG MEANS TEST REQUIRED
DVBA C&P SCHD EVENT
PXX SDAM TO V-FILES
VAFH HL7 OUTPATIENT CAPTURE
VAFH HL7 OUTPATIENT CAPTURE
DGEN SD ENROLL PATIENT
IVM SEND FINANCIAL QUERY
EAS UE SCHED EVENT
MAGD APPOINTMENT
SDAM PFSS EVENT
SDAM APPT TYPE VALIDATION
EDP CHECK-IN
VPR APPT EVENTS
HMP APPT EVENTS

```

You may enter a new ITEM, if you wish  
 Enter a protocol. A protocol that is an ancestor may not also be a  
 sub-item.

Answer with PROTOCOL NAME, or ITEM TEXT, or SYNONYM, or ACCESS, or  
 SET MEMBERSHIP

Do you want the entire 5664-Entry PROTOCOL List?

Select ITEM: HMP APPT EVENTS// ^

**Step 8:** Enter (or verify) the following server ID: **hmp-development-box**, in the HMP SUBSCRIPTION file (#800000). Table 2-11 displays the steps taken.

**NOTE:** The server ID only needs to be entered the first time an install is performed, and verified on each additional install.

**Table 2-11 Enter/Verify Server ID in HMP Subscription File Screen Capture**

**Example of How to Enter/Verify the Server ID in the HMP Subscription File:**

```

Using FileMan, add an entry with this server name in file #800000.
Enter or Edit File Entries
INPUT TO WHAT FILE: HMP SUBSCRIPTION// `800000 HMP SUBSCRIPTION
                      (0 entries)

EDIT WHICH FIELD: ALL// .01 SERVER
THEN EDIT FIELD:
Select HMP SUBSCRIPTION SERVER: hmp-development-box
  Are you adding 'hmp-development-box' as
    a new HMP SUBSCRIPTION (the 1ST)? No// y (Yes)
Select HMP SUBSCRIPTION SERVER:

```

**Step 9:** Site personnel to monitor the post-installation background jobs and global growth (check error traps and ^XTMP space allocation).

**NOTE:** The eHMP VistA code provides a menu (HMP Technical Manager [HMPMGR]) option for local use, as well as a RPC, for use by eHMP, to monitor ^XTMP usage of the HMP namespace. The total number of bytes used by the HMP namespace is returned, as well as the total number of patients in ^XTMP, subtotaled by patients in the process of syncing, and patients who have completed syncing. When used as a menu option, the data is displayed at two-second intervals. The RPC can be invoked on any interval desired to capture ^XTMP usage over time.

Table 2-12 lists an HMP Technical Manager (HMPMGR) screen capture.

**Table 2-12 HMPMGR Screen Capture**

<b>Example of ^XTMP Global Monitor Option in the HMP Technical Management Menu:</b>
Select OPTION NAME: HMPMGR HMP Technical Management Add Health Management Platform User Emergency Stop HMP Freshness Updates HMP Patient Data Monitor Manually Add Patient to HMP Monitor HMP Server Synchronization New Person Events for HMP Resume Freshness Updates That Have Been Stopped Return List of Tomorrow's Patients XTMP Global Monitor Select HMP Technical Management <TEST ACCOUNT> Option: XTMP Global Monitor eHMP usage of ^XTMP = 0 kilo byte(s) There are a total of 0 patients in queue. Hit any key to exit the monitor

**Step 10:** Site/region OI&T to send an email to **REDACTED** once the KIDS Patch installation is complete. Upon receipt of this email, Team ASM will begin the process to schedule the Operational Data Sync (ODS) for the site.

**Step 11:** Site/region OI&T and VHA to allocate the appropriate menu options CPRSChart [OR CPRS GUI CHART] for the eHMP end users and Team ASM testers. There may be additional menu options for end users required by the site.

**Step 12:** Site/region OI&T and VHA to assign a secondary menu option [HMP UI Context Version 0.7-S62] in order to grant user access to the eHMP web UI.

**Step 13:** Team ASM to configure the eHMP server software to communicate with the site.

**Step 14:** Team ASM to confirm connectivity to the site with testing.

**Step 15:** Team ASM to schedule and confirm with the site, a time to run the ODS for eHMP to compile the data from Vista. The initial data sync should be performed during off-peak hours as it can take as long as four (4) hours, depending on the size of the site.

**NOTE:** For more information on the ODS, please see Appendix C.3.

**Step 16:** Team ASM to perform and monitor the operational data synchronization.

## **2.3. EA Production Account Implementation**

The detailed steps for EA production account implementation follow. See Appendix B.3 for the EA production account implementation steps in checklist format.

**Step 1:** Team ASM will send the site an e-mail, which will provide installation instructions, Release Notes, Patch Description and where to download the host files via SFTP.

Upon this initial installation, a script will run creating a proxy/system account. This step occurs only once with the initial installation.

**NOTE:** Sometimes the proxy user account is not created automatically. In this case, the onsite OI&T person will need to create it manually or to edit fields to make sure all necessary attributes are assigned. This is a necessary step to enable the ODS.

Use the option User Inquiry [XUSERINQ] to review the access that was established during the installation of the HMP 2.0 KIDs Package.

Verify that the HMP,APPLICATION PROXY user has the following attributes assigned:

- Name
- Initials
- Multiple sign-on allowed.
- Primary menu is XMUSER.
- Verify code doesn't expire.
- ACCESS CODE and VERIFY CODE are set.
- Restrict Patient Selection – Is set to No.
- Security Keys – HMP ADMIN and PROVIDER keys have been assigned.
- CPRS Tab – Is set to COR.
- Secondary Menu Options – The following have been assigned:
  - HMP UI Context Version 0.7-S62 [HMP UI CONTEXT]
  - Synchronize the HMP [HMP SYNCHRONIZATION CONTEXT]

**If any of these items are not set appropriately, use the Edit an Existing User [XUSEREDIT] option to make the changes, as depicted in Table 2-13.**

**Table 2-13 Manage Proxy User Accounts (Create/Edit)**

Proxy User Account Management
<pre> Select User Management &lt;TEST ACCOUNT&gt; Option: ??   Add a New User to the System [XUSERNEW]   Grant Access by Profile [XUSERBLK]     **&gt; Locked with XUMGR   Edit an Existing User [XUSEREDIT]   Deactivate a User [XUSERDEACT]   Reactivate a User [XUSERREACT]   List users [XUSERLIST]   User Inquiry [XUSERINQ] Switch   Identities [XUTESTUSER]   File Access Security ... [XUFILEACCESS]   Clear Electronic signature code [XUSESIG CLEAR]     **&gt; Locked with XUMGR   Electronic Signature Block Edit [XUSESIG BLOCK]   List Inactive Person Class Users [XU-INACTIVE PERSON CLASS USERS]   Manage User File ... [XUSER FILE MGR]   OAA Trainee Registration Menu ... [XU-CLINICAL TRAINEE MENU]   Person Class Edit [XU-PERSON CLASS EDIT]   Reprint Access agreement letter [XUSERREPRINT] Select User Management &lt;TEST ACCOUNT&gt; Option: User Inquiry Select NEW PERSON NAME:   HMP,APPLICATION PROXY           PU DEVICE: ;;999 TELNET PORT   Right Margin: 80// HMP,APPLICATION PROXY   (#1000000282) ----- Service/Section: ATTRIBUTES -----   Creator .....PROGRAMMER,ONE           Date entered.....Mar 25, 2016   Mult Sign-on ...                       Fileman codes .....   Time-out .....                         Type-ahead .....   Title .....                             Office Phone .....   Auto-Menu .....                        Voice Pager ..... </pre>



Proxy Account Verification	
NEW PERSON LIST	MAY 9,2016 09:27 PAGE 1
NAME	
VERIFY	
CODE	
never	
expires	
User Class	ISPRIMARY
-----	
HMP,APPLICATION PROXY	
Yes	
APPLICATION PROXY	Yes

If these two items are not set appropriately, use the Enter or Edit File Entries [DIEDIT] options to make the changes.

**NOTE: You must use SFTP (Secure FTP) to connect to the FTP site, otherwise you will not be able to connect.**

Upon receipt of the SFTP information:

- a. Enter the address in a browser or use the URL provided.
- b. When prompted for user credentials, enter the following:
  - Username: xxxx
  - Password: xxxx
- c. Proceed to the directory listing, and download the KIDS multi-build which will contain two distinct patches that will need to be loaded in the order listed below:
  - **HMP\_PREREQ\_BUNDLE\_2-0.KID** – The pre-requisite patch is the multi-build, which will install 7 different patches (see Table 2-15).

**Table 2-15 Multi-Build Patches**

Patch	Application
GMRC*3.0*80	Consults/Request Tracking
TIU*1.0*106	TIU
PSB*3.0*79	BCMA
OR*3.0*390	OERR
MD*1.0*38	Clinical Procedures
USR*1.0*37	USR Rules component
TIU*1.0*298	TIU Rules component

- **HMP\_2-0.KID** – Please see associated patch description documentation for the correct version name.

Table 2-16 contains only a single patch with the eHMP code.

**Table 2-16 HMP Patch**

Patch	Application
HMP*2.0	eHMP Version 1.2

**Step 2: Install PSB\*3.0\*94 Patch.**

- PSB\*3.0\*94 is an emergency release but will have a compliance date of 6/10/2016 due to the controlled rollout of eHMP and the requirement to install PSB\*3.0\*94 after PSB\*3.0\*79. Any site that has installed PSB\*3.0\*79 in their Production account must install PSB\*3\*94 immediately. All other sites will install PSB\*3.0\*94 as part of the eHMP phased implementation.
- Patch PSB\*3\*94 is considered part of the phased implementation schedule for eHMP, as it CANNOT be installed until PSB\*3\*79 is installed. This patch needs to be installed after installing the HMP PREREQUISITE BUNDLE which contains the PSB\*3.0\*79 patch.

**NOTE: This patch should be installed when NO BCMA Client users are on the system. Users should remain off the system until the post-processor has finished running.** This post processor has a reduced scope which should reduce the time to run, but its run time could still be more than 30 minutes.

Install PSB Patch. Installation instructions can be found in the PSB Patch Description, but they are also documented in Table 2-17.

**Table 2-17 PSB Patch Installation Instructions**

<b>PSB Patch Installation Instructions</b>
<ol style="list-style-type: none"><li>1. Choose the PackMan message containing this patch.</li><li>2. Choose the INSTALL/CHECK MESSAGE PackMan option.</li><li>3. From the Kernel Installation and Distribution System Menu, select the Installation Menu. From this menu, you may elect to use the following option. When prompted for the INSTALL enter the patch # (PSB*3.0*94):<ol style="list-style-type: none"><li>a. Backup a Transport Global - This option will create a backup message of any routines exported with this patch. It will not backup any other changes such as DD's or templates.</li><li>b. Compare Transport Global to Current System - This option will allow you to view all changes that will be made when this patch is installed. It compares all components of this patch (routines, DD's, templates, etc.).</li><li>c. Verify Checksums in Transport Global - This option will allow you to ensure the integrity of the routines that are in the transport global.</li></ol></li><li>4. From the Installation Menu, select the Install Package(s) option and choose the patch to install. Enter PSB*3.0*94.</li><li>5. When prompted 'Want KIDS to Rebuild Menu Trees Upon Completion of Install? NO//', respond NO.</li><li>6. When prompted 'Want KIDS to INHIBIT LOGONs during the install? NO//', respond NO.</li><li>7. When prompted 'Want to DISABLE Scheduled Options, Menu Options, and Protocols? NO//', respond NO.</li><li>8. If prompted 'Delay Install (Minutes): (0 - 60): 0//', respond 0.</li></ol>

The routine PSB394P is automatically deleted when the installation is complete.

**Step 3: Site/region OI&T to perform the following actions prior to installation:**

- Verify Checksums in Transport Global
- Print Transport Global
- Compare Transport Global to Current System
- Backup a Transport Global

**Step 4:** Installation instructions for site/region OI&T:

- This patch may be installed with users on the system, although it is recommended that it be installed during non-peak hours to minimize a potential disruption. This patch should take about 5-10 minutes to install. See Table 2-18 for an example of installing patch HMP PREREQUISITE BUNDLE 2.0.

**NOTE:** There is a specific sequence for installing the two parts of the KIDS build. The HMP PREREQUISITE BUNDLE 2.0 patch must be installed first followed by the install of HMP 2.0. The KIDS build will not install unless the HMP PREREQUISITE BUNDLE 2.0 build is loaded and installed first. See Table 2-19 for an example of installing patch HMP 2.0.

**NOTE:** This install cannot be queued. During the installation, the installer will be prompted to enter in the name of the coordinator for the Mail Group 'HMP IRM GROUP'.

**Installation Procedure:**

1. Verify that you are in the Production Account.
2. From the installation menu, select *Load a Distribution*.
3. When prompted for *Enter a Host File:* Enter **HMP\_PREREQ\_BUNDLE\_2-0.KID** (You may need to prefix a directory name).
4. Want to continue with load? YES//, respond **YES**.
5. From the KIDS, select the *Installation menu*.
6. From this menu, use the following option – *Install Package(s)*.
7. When prompted for *Select INSTALL NAME:* Enter **HMP PREREQUISITE BUNDLE 2.0**.
8. When prompted - *Want KIDS to Rebuild Menu Trees Upon Completion of Install:* NO// respond **NO**.
9. When prompted - *Want KIDS to INHIBIT LOGONs during the install?* NO// respond **NO**.
10. When prompted - *Want to DISABLE Scheduled Options, and Protocols?* NO// respond **NO**.
11. *Install Completed* - First KIDS install package has now been installed. You must now install the second KIDS patch.
12. From the installation menu, select *Load a Distribution*.
13. When prompted for *Enter a Host File:* Enter the host file **HMP\_2-0.KID** (You may need to prefix a directory name).
14. *What to continue with load?* YES// respond **YES**.
15. From the Installation menu, select *Install Package(s)*.
16. When prompted for *Select INSTALL NAME:* Enter **HMP 2.0**.
17. Enter the Coordinator for Mail Group 'HMP IRM GROUP': **XXXXXX** (enter the name of the site specific mail group coordinator).

**NOTE:** HMP IRM GROUP – This mail group was created for one purpose, to alert IRM staff should our threshold use value (the amount of space we use in ^XTMP) be exceeded for more than 5 minutes. An email will be sent to the coordinator that the threshold usage of ^XTMP has been above the limit for 5 minutes for them to check the status of ^XTMP.

18. *Install Completed* KIDS install of both patches is now complete.

**NOTE:** If you have additional installations of a KIDS patch, when you install you will see an error message stating that you have already installed this patch. Ignore this error and proceed with the patch installation.

**NOTE:** Step 5 follows after the screen captures.

**Table 2-18 HMP PREREQUISITE BUNDLE 2.0 Screen Capture**

<b>Example for Installing Patch HMP PREREQUISITE BUNDLE 2.0:</b>
<pre>Select Installation &lt;PRODUCTION ACCOUNT&gt; Option: 6 Install Package(s) Select INSTALL NAME: HMP PREREQUISITE BUNDLE 2.0      3/4/16@09:28:09 =&gt; HMP PREREQUISITE BUNDLE 2.0 v2.9 ;Created on Jan 14, 2016@17:59:57 This Distribution was loaded on Mar 04, 2016@09:28:09 with header of HMP PREREQUISITE BUNDLE 2.0 v2.9 ;Created on Jan 14, 2016@17:59:57 It consisted of the following Install(s): HMP PREREQUISITE BUNDLE 2.0      MD*1.0*38      OR*3.0*390      PSB*3.0*79 TIU*1.0*106      GMRC*3.0*80      USR*1.0*37      TIU*1.0*298 Checking Install for Package HMP PREREQUISITE BUNDLE 2.0 Install Questions for HMP PREREQUISITE BUNDLE 2.0 Checking Install for Package MD*1.0*38 Install Questions for MD*1.0*38 Checking Install for Package OR*3.0*390 Install Questions for OR*3.0*390 Checking Install for Package PSB*3.0*79 Install Questions for PSB*3.0*79 Checking Install for Package TIU*1.0*106 Install Questions for TIU*1.0*106 Checking Install for Package GMRC*3.0*80 Install Questions for GMRC*3.0*80 Checking Install for Package USR*1.0*37 Install Questions for USR*1.0*37 Checking Install for Package TIU*1.0*298 Install Questions for TIU*1.0*298 Want KIDS to Rebuild Menu Trees Upon Completion of Install? NO// Want KIDS to INHIBIT LOGONS during the install? NO// Want to DISABLE Scheduled Options, Menu Options, and Protocols? NO// Enter the Device you want to print the Install messages. You can queue the install by enter a 'Q' at the device prompt. Enter a '^' to abort the install. DEVICE: HOME//      TELNET PORT  ----- Install Started for HMP PREREQUISITE BUNDLE 2.0 :       Mar 04, 2016@09:29:29 Build Distribution Date: Jan 14, 2016 Installing Routines:       Mar 04, 2016@09:29:29 Install Started for MD*1.0*38 :       Mar 04, 2016@09:29:29 Build Distribution Date: Jan 14, 2016 Installing Routines:       Mar 04, 2016@09:29:29 Installing PACKAGE COMPONENTS: Installing PROTOCOL   Located in the MD (CLINICAL PROCEDURES) namespace.       Mar 04, 2016@09:29:29 Running Post-Install Routine: EN^MDPOST38 Updating Routine file... Updating KIDS files... MD*1.0*38 Installed.       Mar 04, 2016@09:29:30 Install Message sent Install Started for OR*3.0*390 :       Mar 04, 2016@09:29:30 Build Distribution Date: Jan 14, 2016</pre>

### Example for Installing Patch HMP PREREQUISITE BUNDLE 2.0:

```
Installing Routines:
    Mar 04, 2016@09:29:30
Installing PACKAGE COMPONENTS:
Installing PROTOCOL
    Located in the OR (ORDER ENTRY/RESULTS REPORTING) namespace.
    Mar 04, 2016@09:29:30
Updating Routine file...
Updating KIDS files...
OR*3.0*390 Installed.
    Mar 04, 2016@09:29:30
Install Message sent
Install Started for PSB*3.0*79 :
    Mar 04, 2016@09:29:30
Build Distribution Date: Jan 14, 2016
Installing Routines:
    Mar 04, 2016@09:29:30
Installing PACKAGE COMPONENTS:
Installing PROTOCOL
    Located in the PSB (BAR CODE MED ADMIN) namespace.
    Mar 04, 2016@09:29:30
Updating Routine file...
Updating KIDS files...
PSB*3.0*79 Installed.
    Mar 04, 2016@09:29:30
Install Message sent
Install Started for TIU*1.0*106 :
    Mar 04, 2016@09:29:30
Build Distribution Date: Jan 14, 2016
Installing Routines:
    Mar 04, 2016@09:29:30
Running Post-Install Routine: MAIN^TIUPS106
Creating index definition ...
Compiling TIU ENTER/EDIT DS Input Template of File 8925.....
'TIUEDS1' ROUTINE FILED...
'TIUEDS2' ROUTINE FILED..
'TIUEDS3' ROUTINE FILED.
'TIUEDS4' ROUTINE FILED.
'TIUEDS' ROUTINE FILED.....
'TIUEDS5' ROUTINE FILED.
'TIUEDS6' ROUTINE FILED.
Compiling TIU ENTER/EDIT PROGRESS NOTE Input Template of File 8925.....
'TIUENP1' ROUTINE FILED.
'TIUENP2' ROUTINE FILED..
'TIUENP3' ROUTINE FILED..
'TIUENP4' ROUTINE FILED.
'TIUENP5' ROUTINE FILED..
'TIUENP6' ROUTINE FILED.
'TIUENP7' ROUTINE FILED..
'TIUENP8' ROUTINE FILED.
'TIUENP9' ROUTINE FILED.
'TIUENP' ROUTINE FILED.....
'TIUENP11' ROUTINE FILED.
'TIUENP12' ROUTINE FILED..
'TIUENP10' ROUTINE FILED.
'TIUENP13' ROUTINE FILED.
Compiling Cross-Reference(s) 8925 of File 8925.
...HMMM, THIS MAY TAKE A FEW MOMENTS...
'TIUXRC1' ROUTINE FILED.
'TIUXRC2' ROUTINE FILED.
'TIUXRC3' ROUTINE FILED.
'TIUXRC4' ROUTINE FILED.
'TIUXRC' ROUTINE FILED.
Updating Routine file...
Updating KIDS files...
TIU*1.0*106 Installed.
    Mar 04, 2016@09:29:30
Install Message sent
```

**Example for Installing Patch HMP PREREQUISITE BUNDLE 2.0:**

```

Install Started for GMRC*3.0*80 :
      Mar 04, 2016@09:29:30
Build Distribution Date: Jan 14, 2016
Installing Routines:
      Mar 04, 2016@09:29:30
Updating Routine file...
Updating KIDS files...
GMRC*3.0*80 Installed.
      Mar 04, 2016@09:29:30
Install Message sent
Install Started for USR*1.0*37 :
      Mar 04, 2016@09:29:30
Build Distribution Date: Jan 14, 2016
Installing Routines:
      Mar 04, 2016@09:29:30
Updating Routine file...
Updating KIDS files...
USR*1.0*37 Installed.
      Mar 04, 2016@09:29:30
Install Message sent
Install Started for TIU*1.0*298 :
      Mar 04, 2016@09:29:30
Build Distribution Date: Jan 14, 2016
Installing Routines:
      Mar 04, 2016@09:29:30
Installing PACKAGE COMPONENTS:
Installing OPTION
      Mar 04, 2016@09:29:30
Updating Routine file...
Updating KIDS files...
TIU*1.0*298 Installed.
      Mar 04, 2016@09:29:30
Install Message sent
Updating Routine file...
Updating KIDS files...
HMP PREREQUISITE BUNDLE 2.0 Installed.
      Mar 04, 2016@09:29:30
No link to PACKAGE file
Install Completed

```

**Table 2-19 HMP 2.0 Screen Capture****Example for Installing Patch HMP 2.0:**

```

Select Installation <PRODUCTION ACCOUNT> Option: 6  Install Package(s)
Select INSTALL NAME: HMP 2.0      3/4/16@10:03:21
=> Enterprise Health Management Platform Release ;Created on Mar 04, 201
This Distribution was loaded on Mar 04, 2016@10:03:21 with header of
Enterprise Health Management Platform Release ;Created on Mar 04, 2016@09:56
:20
It consisted of the following Install(s):
      HMP 2.0
Checking Install for Package HMP 2.0
Incoming Files:
      800000 HMP SUBSCRIPTION
      800000.1 HMP PATIENT OBJECT
      800000.11 HMP OBJECT (including data)
      800000.2 HMP LIST (including data)
      HMP LIST DOMAIN (including data)
      HMP LIST ATTRIBUTE (including data)
      800001 HMP PANEL
      800001.2 HMP ROSTER
      800001.5 HMP ACTIVITY
Incoming Mail Groups:
Enter the Coordinator for Mail Group 'HMP IRM GROUP': XXX,XXX
EC      113      COMPUTER SPECIALIST
Want KIDS to Rebuild Menu Trees Upon Completion of Install? YES//

```



**Example for Installing Patch HMP 2.0:**

```

value found in ^DD("IX",NNN,1) was:
"I $T(UPD^VPRPROC)]"" D UPD^VPRPROC(X2(1),DA_";MDD(702,")"
updated to "Q ;I $T(UPD^VPRPROC)]"" D UPD^VPRPROC(X2(1),DA_";MDD(702,")"
value found in ^DD("IX",NNN,2) was:
"I $T(DEL^VPRPROC)]"" D DEL^VPRPROC(X1(1),DA_";MDD(702,")"
updated to "Q ;I $T(DEL^VPRPROC)]"" D DEL^VPRPROC(X1(1),DA_";MDD(702,")"
INDEX entry completed Mar 04, 2016@09:33:40
HMP0311P post-init routine started Mar 04, 2016@09:33:40
Old data saved in ^XTMP("HMP INSTALL LOG",3160304.09334)
HMP DGPF ASSIGN FLAG protocol update finished Mar 04, 2016@09:33:40
HMP0311Q post-init routine started Mar 04, 2016@09:33:40
PROTOCOL HMP ADT-A04 CLIENT IS NOW SUBSCRIBED TO VAFC ADT-A04 SERVER.
PROTOCOL HMP ADT-A08 CLIENT IS NOW SUBSCRIBED TO VAFC ADT-A08 SERVER.
HMP ADT-A0# CLIENT protocols subscribed Mar 04, 2016@09:33:40 Adding
domain object average sizes to HMP DOMAIN SIZES parameter...
  o patient domain sizes added
  o operational domain sizes added
Updating Routine file...
Updating KIDS files...
HMP 2.0 Installed.
      Mar 04, 2016@10:04:06
Install Message sent
Call MENU rebuild
Starting Menu Rebuild: Mar 04, 2016@10:04:08
Collecting primary menus in the New Person file...
      Primary menus found in the New Person file
      -----
OPTION NAME          MENU TEXT                # OF      LAST      LAST
                     USERS                USED      USED      BUILT
DIUSER              VA FileMan                111       04/28/02  03/04/16
XMUSER              MailMan Menu                30        05/19/15  03/04/16
EVE                 Systems Manager Menu       181       03/04/16  03/04/16
Building secondary menu trees....
Merging... done.
Install Completed

```

**Step 5:** Team ASM will confirm with site/region OI&T that access verify codes are current, and will document their expiration dates. The verify codes are associated with the proxy account. During the initial installation, a script will run creating the proxy/system account. This step occurs only once with the initial installation.

**Step 6:** OI&T to perform standard VistA testing to ensure correct functioning of VistA after the successful installation of the KIDS Patch.

**Step 7:** Provide VistA protocol validation installation instructions for site/region OI&T. The following steps are provided to verify that VistA protocols have not been harmed, and should be performed immediately after the KIDS installation:

- a. Use FileMan to look at each trigger protocol affected by the KIDS build (see Table 2-20 & 2-21). A sample is provided in Table 2-20 Protocol Modifications Screen Capture
- b. Use ^ITEM to go to the Item listing.
- c. Use “?” to list the entire ITEM list connected to the protocol.
- d. Ensure a protocol with HMP is listed.
- e. Ensure that protocol is last in the listing.

**Table 2-21 VistA Functional Areas/Protocols Affected**

VistA Package	Name	Item
---------------	------	------

Allergies	GMRA SIGN-OFF ON DATA	HMP GMRA EVENTS
Allergies	GMRA ENTERED IN ERROR	HMP GMRA EVENTS
Appointments	SDAM APPOINTMENT EVENTS	HMP APPT EVENTS
BCMA	PSB EVSEND VPR	HMP PSB EVENTS
Clinical Procedures	MDC OBSERVATION UPDATE	HMP MDC EVENT
Consults	GMRC EVSEND OR	HMP XQOR EVENTS
Dietetics	FH EVSEND OR	HMP XQOR EVENTS
Laboratory	LR70 CH EVSEND OR	HMP XQOR EVENTS
Orders	OR EVSEND VPR	HMP XQOR EVENTS
Orders Consults	OR EVSEND GMRC	HMP NA EVENTS
Orders Dietetics	OR EVSEND FH	HMP NA EVENTS
Orders Generic Message	OR EVSEND ORG	HMP XQOR EVENTS
Orders Lab	OR EVSEND LRCH	HMP NA EVENTS
Orders Pharmacy	OR EVSEND PS	HMP NA EVENTS
Orders Radiology	OR EVSEND RA	HMP NA EVENTS
Patient Registration	VAFC ADT-A04 SERVER	HMP ADT-A04 CLIENT
Patient Registration	VAFC ADT-A08 SERVER	HMP ADT-A08 CLIENT
Pharmacy	PS EVSEND OR	HMP XQOR EVENTS
Problem List	GMPL EVENT	HMP GMPL EVENT
Radiology	RA EVSEND OR	HMP XQOR EVENTS
Record Flag Assignment	DGPF ASSIGN FLAG	HMP DGPF ASSIGN FLAG
Registration	DG FIELD MONITOR	HMP DG UPDATES
Registration/Patient Movement	DGPM MOVEMENT EVENTS	HMP INPT EVENTS
Scheduling	SCMC PATIENT TEAM CHANGES	HMP PCMM TEAM
Scheduling	SCMC PATIENT TEAM POSITION CHANGES	HMP PCMM TEAM POSITION
Visit	PXK VISIT DATA EVENT	HMP PCE EVENTS

**Table 2-22 VistA Functional Areas/Protocol List/Subscribers**

<b>VistA Package</b>	<b>Name</b>	<b>Subscribers</b>
Patient Registration	VAFC ADT-A04 SERVER	RG ADT-A04 TRIGGER VBECS ADT-A04 CLIENT HMP ADT-A04 CLIENT
Patient Registration	VAFC ADT-A08 SERVER	RG ADT-A08 TRIGGER VBECS ADT-A08 CLIENT HMP ADT-A08 CLIENT



**Example of How to Enter/Verify the Server ID in the HMP Subscription File:**

```
EDIT WHICH FIELD: ALL// .01 SERVER
THEN EDIT FIELD:
Select HMP SUBSCRIPTION SERVER: hmp-development-box
  Are you adding 'hmp-development-box' as
  a new HMP SUBSCRIPTION (the 1ST)? No// y (Yes)
Select HMP SUBSCRIPTION SERVER:
```

**Step 9:** Site personnel to monitor the post-installation background jobs and global growth (error traps, ^XTMP space allocation).

**NOTE:** The eHMP VistA code provides a menu (HMP Technical Manager [HMPMGR]) option for local use, as well as an RPC (for use by eHMP) to monitor ^XTMP usage of the HMP namespace. The total number of bytes used by the HMP namespace is returned, as well as the total number of patients in ^XTMP, subtotaled by patients in the process of syncing and patients who have completed syncing. When used as a menu option, the data is displayed at 2 second intervals. The RPC can be invoked on any interval desired to capture ^XTMP usage over time.

Table 2-24 lists an HMP Technical Manager (HMPMGR) screen capture.

**Table 2-25 HMPMGR Screen Capture**

**Example of ^XTMP Global Monitor Option in the HMP Technical Management Menu:**

```
Select OPTION NAME: HMPMGR HMP Technical Management
  Add Health Management Platform User
  Emergency Stop HMP Freshness Updates
  HMP Patient Data Monitor
  Manually Add Patient to HMP
  Monitor HMP Server Synchronization
  New Person Events for HMP
  Resume Freshness Updates That Have Been Stopped
  Return List of Tomorrow's Patients
  XTMP Global Monitor
Select HMP Technical Management <TEST ACCOUNT> Option: XTMP Global Monitor
eHMP usage of ^XTMP = 0 kilo byte(s)
There are a total of 0 patients in queue.
Hit any key to exit the monitor
```

**Step 10:** Site/region OI&T to send an email to **REDACTED** once the KIDS Patch installation is complete. Upon receipt of this email, Team ASM will begin the process to schedule the ODS for the site.

**Step 11:** Site/region OI&T and VHA to allocate the appropriate menu options CPRSChart [OR CPRS GUI CHART] for the eHMP end users and Team ASM testers. If a user needs CPRS they will require this GUI option. There may be additional menu options and keys for end users required by the site.

**Step 12:** Site/region OI&T and VHA to assign a secondary menu option [HMP UI Context Version 0.7-S62] in order to grant user access to the eHMP web UI.

**Step 13:** Team ASM to configure the eHMP server software in order to communicate with the site.

**Step 14:** Team ASM to confirm connectivity to the site with testing.

**Step 15:** Team ASM to schedule and confirm with the site, a time to run the ODS for eHMP to compile the data from VistA. The initial data sync should be performed during off-peak hours as it can take from one (1) to four (4) hours, depending on the size of the site.

**NOTE:** For more information on the ODS, please see Appendix C.3.

**Step 16:** Team ASM to perform and monitor the ODS.

**NOTE:** Please see Appendix B.3 for the EA Production Account Implementation Checklist.

## 3. Troubleshooting and Rollback Procedures

### 3.1. Trouble Ticket Handling

The National Service Desk (NSD) will begin accepting eHMP tickets at the beginning of Enterprise Availability.

VA personnel who encounter an issue will open a trouble ticket with the NSD. The ticket will be triaged, handled and escalated in accordance with standard NSD ticket handling protocols. Tickets determined to be eHMP application related will be sent to the eHMP applications group for resolution. Once tickets reach the Tier 3 level, Team ASM will be notified and will work to resolve the eHMP tickets.

### 3.2. Troubleshooting Steps for eHMP Remediation

The following remediation steps address situations in which the application has become non-functional during the normal course of operation.

1. When issues are reported to NSD/Tier 3 support, Team ASM will identify the source of the issue and the type of component that is affected.
2. Based upon the severity of the error, a determination will be made on whether or not the issue is temporary and can be resolved within the runtime account, or if restoration of the system is required.
3. Issues that may cause temporary lack of responsiveness or functionality include:
  - a. Insufficient disk space for the JDS or Searching On Lucene with Replication (SOLR) data stores. These types of issues generally require that additional disk space is allocated in order to return the application to full health.
  - b. Insufficient disk space for the application components. These issues are related to log files filling up the available space. The remedy is to archive the log files and remove them from the server. A key monitoring activity for the application is ensuring that log files do not fill up the available space.
  - c. Unresponsive or broken external connections at the network layer. These may require contacting the appropriate external entity or Network and Security Operations Center (NSOC) to determine if the connection is no longer allowed because of a change in that entity. The remedy is to restore that connection through the appropriate network mechanisms.
  - d. Broken external connections at the application layer. These types of errors will require reconfiguration of the application component, as they are caused either by changed or expired certificates, connection credentials or password changes. The resolution is to work with the appropriate external system to validate the correct credentials and implement the change either in the application or infrastructure configuration.
4. If the eHMP issue is not resolved by the previous steps, then restoration from a back-up may be required. If so, then:
  - a. Appropriate technical representation from the VA, the AITC and Team ASM will determine which back-up(s) AITC is to restore, and to which servers the back-up(s) will be restored.

5. After resolution of the issue, Team ASM will verify that the restored account is available for users.
6. When the account is confirmed available, Team ASM will release the restored account for the customer.

### **3.3. Troubleshooting Steps for KIDS Patch Remediation**

The following remediation steps address situations in which the application has become non-functional during the normal course of operation.

1. When issues are reported to NSD/Tier 3 support, Team ASM will identify the source of the issue and the type of component that is affected.
2. Based upon the severity of the error, a determination will be made on whether or not the issue is temporary and can be resolved within the runtime account, or if a rollback of the KIDS Patch is required.
3. Issues that may cause temporary lack of responsiveness or functionality include:
  - a. Errors found in the VistA error trap. These errors can occur due to any number of potential configurations applied to a site.
  - b. Insufficient disk space for the application components. These issues are related to log files filling up the available space. The remedy is to archive the log files and remove them from the server. A key monitoring activity for the application is ensuring that log files do not fill up the available space.
  - c. Unresponsive or broken external connections at the network layer. These may require contacting the appropriate external entity or NSOC to determine if the connection is no longer allowed because of a change in that entity. The remedy is to restore that connection through the appropriate network mechanisms.
  - d. Broken external connections at the application layer. These types of errors will require reconfiguration of the application component, as they are caused either by changed or expired certificates, connection credentials or password changes. The resolution is to work with the appropriate external system to validate the correct credentials and implement the change either in the application or infrastructure configuration.
4. If the KIDS Patch issue is not resolved by the previous steps, then a rollback to a previous version may be required. In this case, Team ASM should be immediately contacted directly.
5. After resolution of the issue, Team ASM will verify that the restored account is available for users.
6. When the account is confirmed available, Team ASM will release the restored account for the customer.

### **3.4. KIDS Patch Rollback Procedures**

If a new version KIDS Patch was deployed and is causing problems, a rollback could be done to the previous patch version, with the technical assistance of Team ASM.

VA Site/Region personnel should do the following if there are problems with a KIDS Patch:

- Contact Team ASM immediately.

- Document specific problems and/or error conditions.
- Limit access.
- **Do not** attempt to rollback KIDS Patch without Team ASM assistance.
- Notify the appropriate VA personnel at their site/region.

The rollback procedures for a KIDS Patch are extremely complex and requires the immediate attention and involvement of Team ASM. Team ASM will assume the lead in the effort to restore functionality. The VA Site/Region personnel should not attempt any VistA/KIDS Patch restoration without Team ASM involvement and assistance.

Initial procedures for KIDS Patch rollback are to:

1. Disable VistA Exchange (VX)-Sync - disable the poller only for the specific site.
2. Remove all patients from subscription file and clear that site on the eHMP side.
3. Disable any currently running process created during the installation.
4. If applicable, install the mail message with the backup of the routines.

Prior to installing an updated KIDS package, the site should save a backup of the routines in a mail message using the Backup a Transport Global [XPD BACKUP] menu option (this is done at time of install).

After the rollback, Team ASM will verify that the restored account is available for users. When the account is confirmed available, Team ASM will release the restored account to the customer.

## A. Appendix 1 – Acronyms

Table 3-1 lists the acronyms that are used throughout this artifact.

**Table 3-1 Acronym List**

<b>Acronym</b>	<b>Description</b>
AITC	Austin Information Technology Center
ASM	ASM Research
BCMA	Bar Code Medication Administration
CAC	Clinical Applications Coordinator
CDS	Clinical Data Services
CPRS	Computerized Patient Record System
DoD	Department of Defense
eHMP	Enterprise Health Management Platform
FCIO	Facility Chief Information Officer
FQDN	Fully Qualified Domain Name
FTP	File Transfer Protocol
GUI	Graphical User Interface
HL7	Health Level 7
HMP	Health Management Platform
ID	Identification
IRM	Information Resource Management
ISO	Installation Security Officer
JDS	JSON Data Store
JLV	Joint Legacy Viewer
JSON	JavaScript Object Notation
KIDS	Kernel Installation and Distribution System
MUMPS	Massachusetts General Hospital Utility Multi-Programming System
NSD	National Service Desk
NSOC	Network and Security Operations Center
NSR	New Service Request
ODS	Operational Data Sync
OERR	Order Entry/Results Reporting
OI&T	Office of Information and Technology
PITC	Philadelphia Information Technology Center
POC	Point of Contact
PSI	Patient Safety Issue

<b>Acronym</b>	<b>Description</b>
RPC	Remote Procedure Call
SFTP	Secure File Transfer Protocol
SOLR	Searching On Lucene with Replication
SSH	Setup Secure Shell
SSN	Social Security Number
TIU	Text Integration Utility
UI	User Interface
URL	Uniform Resource Locator
VA	Department of Veterans Affairs
VHA	Veterans Health Administration
VistA	Veterans Health Information Systems and Technology Architecture
VX	VistA Exchange
^XTMP	Temporary File Storage in VistA

## B. Appendix 2 – EA Site Installation Checklists

### B.1. EA Pre-Implementation/Initial Site Setup

Table 3-2 is the checklist that addresses the necessary activities required to get an EA site ready for KIDS build installation and connectivity to eHMP. The initial site setup is performed once, and will not need to be performed again for subsequent release installs.

**Table 3-2 EA Pre-Implementation/Initial Site Setup Checklist**

Task No.	Task	Responsible Party	Days Prior (-), Day of (T), and Days Post (+) Install	Test/Pre-Prod Account	Prod Account
<b>Pre-Implementation/Initial Site Setup</b>					
1	Provide a site POC list to Team ASM.	Site OI&T and VHA Staff	T-30	X	
2	Provide site connectivity information to Team ASM (FQDN, RPC Port for the VistA server, Station ID, VistA SSH User).	Site/Region OI&T	T-30	X	
3	Site/region OI&T to obtain the eHMP VistA Site Hash Code and provide to Team ASM – for <b>both Test/Pre-Prod and Production accounts</b> .	Site/Region OI&T	T-30	X	X
4	Validate station ID with site.	Team ASM	T-30	X	
5	OI&T and VHA to work with sites to identify up to 25 users. Provisioning requests should be sent to AID NLT XX.	Site/Region OI&T and VHA Staff	T-5	X	

## B.2. EA Test/Pre-Production Account Implementation

Table 3-3 is the checklist that addresses the necessary activities required to install the KIDS build into the EA Test/Pre-Production account and allow connectivity to eHMP.

**Table 3-3 EA Test/Pre-Production Account Implementation Checklist**

Task No.	Task	Responsible Party	Days Prior (-), Day of (T), and Days Post (+) Install	Test/Pre-Prod Account	Prod Account
<b>Test/Pre-Production Account Implementation</b>					
1	Team ASM will send the site an e-mail with the multi-build information with instructions on how to install (KIDS Patch Description), Release Notes, and the FTP site location of the file and checksum.	Team ASM	T	X	
2	Install PSB*3.0*94 Patch	Site/Region OI&T	T	X	
3	Perform the following actions prior to installation: <ul style="list-style-type: none"> <li>• Verify Checksums in Transport Global</li> <li>• Print Transport Global</li> <li>• Compare Transport Global to Current System</li> <li>• Backup a Transport Global</li> </ul>	Site/Region OI&T	T	X	
4	KIDS Installation instructions.	Site/Region OI&T	T	X	
5	Confirm that access verify codes are current, and will document their expiration dates.	Site/Region OI&T	T	X	
6	Perform standard VistA testing to ensure correct functioning of VistA after the successful installation of the KIDS Patch.	Site/Region OI&T	T	X	
7	Provide VistA protocol validation installation instructions for site/region OI&T.	Team ASM	T	X	
8	Team ASM will provide a server ID that must be entered or verified in the HMP SUBSCRIPTION file (#800000). NOTE: The server ID only needs to be entered the first time an install is performed, and verified on each additional install.	Site/Region OI&T and Team ASM	T	X	
9	Site personnel and Team ASM to monitor the post-installation background jobs and global growth (check error traps and ^XTMP space allocation).	Site/Region OI&T and Team ASM	T	X	

Task No.	Task	Responsible Party	Days Prior (-), Day of (T), and Days Post (+) Install	Test/Pre-Prod Account	Prod Account
<b>Test/Pre-Production Account Implementation</b>					
10	When the site has successfully installed the KIDS Patch, an email noting the completion of this task must be sent to <b>REDACTED</b>	Site/Region OI&T	T	X	
11	Site/region OI&T to allocate the appropriate menu options CPRSChart [OR CPRS GUI CHART] for the eHMP end users and Team ASM testers.	Site/Region OI&T and VHA	T	X	
12	Provide the HMP UI Context Version 0.7-S62 [HMP UI CONTEXT] secondary menu option for end users and Team ASM testers.	Site/Region OI&T and VHA	T	X	
13	Configure the eHMP server software.	Team ASM	T+1	X	
14	Test connectivity to site.	Team ASM	T+1	X	
15	Schedule and confirm time with site to perform the ODS.	Team ASM		X	
16	Perform and monitor the ODS.	Team ASM	T	X	

### B.3. EA Production Account Implementation

Table 3-4 is the checklist that addresses the necessary activities required to install the KIDS build into the EA Production account and allow connectivity to eHMP.

**Table 3-4 EA Production Account Implementation Checklist**

Task No.	Task	Responsible Party	Days Prior (-), Day of (T), and Days Post (+) Install	Test/ Pre-Prod Account	Prod Account
<b>Production Account Implementation</b>					
1	Team ASM will send the site an e-mail with the multi-build information with instructions on how to install (KIDS Patch Description), Release Notes, and the FTP site location of the file and checksum.	Team ASM	T		X
2	Install PSB*3.0*94 Patch	Site/Region OI&T	T	X	
3	Perform the following actions prior to installation: <ul style="list-style-type: none"> <li>• Verify Checksums in Transport Global</li> <li>• Print Transport Global</li> <li>• Compare Transport Global to Current System</li> <li>• Backup a Transport Global</li> </ul>	Site/Region OI&T	T		X
4	KIDS installation instructions	Site/Region OI&T	T		X
5	Confirm that access verify codes are current, and will document their expiration dates.	Site/Region OI&T	T-30	X	
6	Perform standard VistA testing to ensure correct functioning of VistA after the successful installation of the KIDS Patch.	Site/Region OI&T	T		X
7	Provide VistA protocol validation installation instructions for site/region OI&T.	Team ASM	T		X
8	Team ASM will provide a server ID that must be entered or verified in the HMP SUBSCRIPTION file (#800000). NOTE: The server ID only needs to be entered the first time an install is performed, and verified on each additional install.	Site/Region OI&T and Team ASM	T		X

Task No.	Task	Responsible Party	Days Prior (-), Day of (T), and Days Post (+) Install	Test/ Pre-Prod Account	Prod Account
<b>Production Account Implementation</b>					
9	Monitor the post-installation background jobs and global growth (error traps, ^XTMP space allocation).	Site/Region OI&T and Team ASM	T		X
10	When the site has successfully installed the KIDS Patch, an email noting the completion of this task must be sent to <b>REDACTED</b>	Site/Region OI&T	T		X
11	Allocate the appropriate menu options for end users and Team ASM testers CPRSChart [OR CPRS GUI CHART].	Site/Region OI&T	T		X
12	Provide the HMP UI Context Version 0.7-S62 [HMP UI CONTEXT] secondary menu option for end users and Team ASM testers.	Site/Region OI&T	T		X
13	Configure eHMP software.	Team ASM	T		X
14	Test connectivity to site.	Team ASM	T		X
15	Schedule and confirm time with site to perform the ODS.	Team ASM	T		X
16	Perform and monitor the ODS.	Team ASM	T		X

## C. Appendix 3 – eHMP Installation Information

### C.1. General Information

#### ODS

- It is the initial connection between the VistA (site) and eHMP at the data center (AITC)
- It starts automatically when the site is added to the configuration file, but Team ASM can also start it manually
- It provides the available patients and what is selectable for them
- It is the synchronization of the patient operational data (domains) from the VistA
  - Patient info (name, social security number (SSN), etc.), clinic locations, allergies, appointments, immunizations, medications, site users, etc.

Team ASM monitors the ODS until it successfully completes.

#### Patient Data Sync

eHMP will aggregate, normalize, and index all data from wherever patient has been, including DoD, and present a consolidated view, including the ability to perform record-wide searches. In order to do this, data has to be synchronized and normalized into VistA exchange

#### Types of Patient Data Sync:

- On-demand Sync:
  - Request for patient data the first time a patient is selected by the user.
- Pre-fetch (Opportunistic Sync):
  - Sync request made from appointments, admissions and active user lists.
- Freshness Update:
  - Automatic near-real time refreshing of patient data initiated by changes to patient data in the VistA (i.e., lab results posted, adding an allergy, etc.).

#### Throttling of ^XTMP

In v1.2 Team ASM has created a throttling feature for ^XTMP Global. This was created to prevent eHMP from consuming too much space in ^XTMP. Currently the throttling is set at 500MB. If eHMP starts to approach 500MB, the software will automatically begin to throttle back the eHMP usage of ^XTMP.

#### Monitoring of ^XTMP

The latest version of eHMP VistA code provides a menu (HMP Technical Manager [HMPMGR]) option for local use, as well as an RPC (for use by eHMP) to monitor ^XTMP usage of the HMP namespace. The total number of bytes used by the HMP namespace is returned, as well as the total number of patients in ^XTMP, subtotaled by patients in the process of syncing and patients who have completed syncing. When used as a menu option, the data is displayed at 2 second intervals. The RPC can be invoked on any interval desired to capture ^XTMP usage over time.

Table 3-5 details the screen capture of HMP Technical Manager (HMPMGR).

**Table 3-5 HMPMGR Screen Capture**

<b>Example of ^XTMP Global Monitor Option in the HMP Technical Management Menu:</b>
Select OPTION NAME: HMPMGR HMP Technical Management
Add Health Management Platform User Emergency Stop HMP Freshness Updates HMP Patient Data Monitor Manually Add Patient to HMP Monitor HMP Server Synchronization New Person Events for HMP Resume Freshness Updates That Have Been Stopped Return List of Tomorrow's Patients XTMP Global Monitor
Select HMP Technical Management <TEST ACCOUNT> Option: XTMP Global Monitor
eHMP usage of ^XTMP = 0 kilo byte(s)
There are a total of 0 patients in queue.
Hit any key to exit the monitor

## Menus

As described in the steps for installation, the Site/region OI&T must allocate the appropriate menu options for eHMP end users and Team ASM testers.

Users who need access to CPRS will require this GUI option - OR CPRS GUI CHART.

In order for eHMP to function properly, this secondary menu option must be assigned - HMP UI Context Version 0.7-S62 [HMP UI CONTEXT].

There may be additional menu options and keys for end users required by the site.

## C.2. Patch Components

The KIDS multi-build which will contain two distinct patches that will need to be loaded in the order listed below:

- **HMP PREREQUISITE BUNDLE 2.0** – The pre-requisite patch is the multi-build, which will install 7 different patches (Table 3-6).

**Table 3-6 Multi-Build Patches**

<b>Patch</b>	<b>Application</b>
GMRC*3.0*80	Consults/Request Tracking
TIU*1.0*106	TIU
PSB*3.0*79	BCMA
OR*3.0*390	OERR
MD*1.0*38	Clinical Procedures
USR*1.0*37	USR Rules component
TIU*1.0*298	TIU Rules component

- **HMP\_2-0.KID** – Please see associated patch description documentation for the correct version name. Table 3-7 contains only a single patch with the eHMP code.

**Table 3-7 HMP Patch**

Patch	Application
HMP*2.0	eHMP Version 1.2

**Patch Descriptions:**

**MD\*1.0\*38** - This patch ensures that any changes made to Clinical Procedures in VistA can be shared with subscribers. This is accomplished by creating a trigger for the Clinical Procedures package so that any changes update the eHMP package. These changes are then consumed by eHMP.

**OR\*3.0\*390** - This patch ensures that any changes made to Orders or Results in the OERR package in VistA can be shared with subscribers. This is accomplished by creating a trigger for the OERR package so that any changes update the eHMP package. These changes are then consumed by eHMP.

**PSB\*3.0\*79** - This patch ensures that any changes made to Medications via BCMA in VistA can be shared with subscribers. This is accomplished by creating a trigger for the BCMA package so that any changes update the eHMP package. These changes are then consumed by eHMP.

**TIU\*1.0\*106** - This patch ensures that any changes made to notes in the TIU in VistA can be shared with subscribers. This is accomplished by creating a trigger for the TIU package so that any changes update the eHMP package. These changes are then consumed by eHMP.

**GMRC\*3.0\*80** - This patch ensures that any changes made to the several note types associated with Consults/Request tracking in VistA can be shared with subscribers. This is accomplished by creating a trigger for the Consults/Request tracking package so that any changes update the eHMP package. These changes are then consumed by eHMP.

**USR\*1.0\*37** - This patch ensures that any changes made to user and rule information in VistA can be shared with subscribers. This is accomplished by creating a trigger in the USR package to pass any changes to ASU rules to the eHMP package. These changes are then consumed by eHMP to enforce document access rules.

**TIU\*1.0\*298** - This patch ensures that any changes to document metadata in VistA can be shared with subscribers. This is accomplished by creating a trigger for the TIU document definitions so that any changes update the eHMP package. These changes are then consumed by eHMP to enforce document access rules.

### C.3. Files and Fields Associated

Table 3-8 lists the associated files and fields in the HMP 2.0 patch. Check that HMP routine namespace now exists, and the 800000 series files now exist.

**Table 3-8 Associated Files and Fields**

Associated Files	Fields
HMP SUBSCRIPTION	#800000
HMP PATIENT OBJECT	#800000.1
HMP OBJECT	#800000.11
HMP LIST	#800000.2
HMP LIST DOMAIN	#800000.21
HMP PANEL	#800001
HMP ROSTER	#800001.2
HMP ACTIVITY	#800001.5
HMP LIST ATTRIBUTE	#800000.22

### C.4. Additional Information: Routines

Table 3-9 lists the informational routines.

**Table 3-9 Informational Routines**

Informational Routines:
HMPACT>HMPAP1>HMPATRG>HMPCAC>HMPCORD>HMPCORD1>HMPCORD2>HMPCORD3>HMPCORD4 HMPCORD5>HMPCPAT HMPCPAT1>HMPCPRS HMPCRPC>HMPCRPC1>HMPD>HMPCRC>HMPCDERRH>HMPCDGMPL>HMPCDGMRA>HMPCDGMRC>HMPCDGMV>HMPCDGMV>HMPCDGMV>HMPCDIB>HMPCDJ>HMPCDJ0>HMPCD J00 HMPCDJ00A>HMPCDJ01>HMPCDJ02>HMPCDJ03>HMPCDJ04>HMPCDJ04A>HMPCDJ04E>HMPCDJ05>HMPCDJ05V>HMPCDJ06>HMPCDJ07>HMPCDJ08 HMPCDJ08A>HMPCDJ09>HMPCDJ09M>HMPCDJ1>HMPCDJ2>HMPCDJFS>HMPCDJFSD>HMPCDJFSG>HMPCDJFSM>HMPCDJFSP>HMPCDJFST>HMPCDJT>HMPCDJX HMPCDLR>HMPCDLRA>HMPCDLRO>HMPCDMC>HMPCDMDC>HMPCDOR>HMPCDPROC>HMPCDPS>HMPCDPSI>HMPCDPSO>HMPCDPSOR>HMPCDPT>HMPCDPXAM HMPCDPXED>HMPCDPXHF>HMPCDPXIM>HMPCDPXSK>HMPCDRA>HMPCDSDAM>HMPCDSR>HMPCDTIU>HMPCDTIUX>HMPCDVSIT>HMPEASU>HMPEF>HMPEFSG HMPEFSP>HMPEFST>HMPEFX>HMPEHL7>HMPELAB>HMPENSZ>HMPENSZ1>HMPEQ>HMPEQLM>HMPEQLM1>HMPEQLM2>HMPEVNT>HMPPFTC HMPPHTTP>HMPPIDX>HMPPJREQ>HMPPJRSP>HMPPJRUT>HMPPJSON>HMPPJSOND>HMPPJSONE>HMPLIST>HMPPMDUTL>HMPPMOCK>HMPP2I>HMPP3I HMPPANEL>HMPPPARAM>HMPPATS>HMPPPI>HMPPRODC>HMPPPTDEM>HMPPXPR1>HMPPXRM>HMPPROS2>HMPPROS3>HMPPROS4>HMPPROS5>HMPPROS6 HMPPROS7>HMPPROS8>HMPPSR HMPPTRPC>HMPPTRPC1>HMPPUPD>HMPPUTILS>HMPPYCSI>HMPPYFRP HMPPYFRP1 HMPPYFRP2>HMPPYPAR

#### Forms Associated:

- There are no forms associated with eHMP.

#### Mail Groups Associated:

- HMP IRM GROUP – This mail group was created for one purpose, to alert IRM staff should our threshold use value (the amount of space we use in ^XTMP) be exceeded for more than 5 minutes. An email will be sent to the coordinator that the threshold usage of ^XTMP has been above the limit for 5 minutes for them to check the status of ^XTMP.

## Options Associated:

- Table 3-10 details the associated options.

**Table 3-10 Associated Options**

Option Name	Type	New/Modified/Deleted
HMP APPLICATION PROXY	Action	New
HMP APPOINTMENTS	Action	New
HMP PATIENT ACTIVITY	Action	New
HMP PATIENT DATA MONITOR	Action	New
HMP SYNCHRONIZATION CONTEXT	Broker	New
HMP UI CONTEXT	Broker	New
HMP WB PTDEM	Action	New
HMP XU EVENTS	Action	New
HMPM ADD HMP PATIENT	Action	New
HMPM ADD HMP USER	Action	New
HMPM EMERGENCY STOP	Action	New
HMPM EXTRACT MONITOR	Action	New
HMPM RESTART FRESHNESS	Action	New
HMPMGR	Menu	New

## C.5. Protocols Associated

Table 3-11 details the list of associated protocols.

**Table 3-11 Associated Protocols**

Protocols	Definitions	New/Modified/Deleted
HMP ADT-A04 CLIENT	HMP Health Level 7 (HL7) ADT-A04 Client	New
HMP ADT-A08 CLIENT	HMP HL7 ADT-A08 Client	New
HMP APPT EVENTS	Appointment events for HMP	New
HMP DG UPDATES	DG updates for HMP	New
HMP GMPL EVENT	Problem List events for HMP	New
HMP GMRA EVENTS	Allergy Events for HMP	New
HMP INPT EVENTS	Inpatient Movement events for HMP	New
HMP MDC EVENT	CLiO events for HMP	New
HMP NA EVENTS	XQOR HL7 events for HMP	New

Protocols	Definitions	New/Modified/Deleted
HMP PATIENT APPT TRIGGER	HMP Activity File Patient Appointment Trigger	New
HMP PCE EVENTS	PCE events for HMP	New
HMP PCMM TEAM	PCMM Team events for HMP	New
HMP PCMM TEAM POSITION	PCMM Team Position events for HMP	New
HMP PSB EVENTS	BCMA events for HMP	New
HMP XQOR EVENTS	XQOR HL7 events for HMP	New
HMPM EVT QUE CHANGE MAX LISTED	Change Max Limit	New
HMPM EVT QUE CHANGE SERVER	Change Server	New
HMPM EVT QUE DISPLAY DETAILS	Display Details	New
HMPM EVT QUE FILTER	Filter Events	New
HMPM EVT QUE FRESHNESS REPORT	Freshness Report	New
HMPM EVT QUE MGR MENU	VPR Freshness Queue Viewer	New
HMPM EVT QUE REFRESH	Update	New
HMPM EVT QUE SELECT PATIENT	Select Patient	New
HMPM EVT QUE SHOW TEMP GLOBALS	Temp Global Usage	New

Table 3-12 details the list of protocols.

**Table 3-12 Protocol List**

Number	Name	Item
6022	GMPL EVENT	HMP GMPL EVENT
6023	MDC OBSERVATION UPDATE	HMP MDC EVENT
6024	OR EVSEND VPR	HMP XQOR EVENTS
6025	PSB EVSEND VPR	HMP PSB EVENTS
3392	GMRC EVSEND OR	HMP XQOR EVENTS
3530	OR EVSEND LRCH	HMP NA EVENTS
1240	DGPM MOVEMENT EVENTS	HMP INPT EVENTS
1302	SDAM APPOINTMENT EVENTS	HMP APPT EVENTS
2690	RA EVSEND OR	HMP XQOR EVENTS
2700	PXK VISIT DATA EVENT	HMP PCE EVENTS
2894	GMRA SIGN-OFF ON DATA	HMP GMRA EVENTS
2896	GMRA ENTERED IN ERROR	HMP GMRA EVENTS
2905	SCMC PATIENT TEAM CHANGES	HMP PCMM TEAM
2906	SCMC PATIENT TEAM POSITION CHANGES	HMP PCMM TEAM POSITION

Number	Name	Item
3336	LR70 CH EVSEND OR	HMP XQOR EVENTS
3373	PS EVSEND OR	HMP XQOR EVENTS
3411	FH EVSEND OR	HMP XQOR EVENTS
3529	OR EVSEND RA	HMP NA EVENTS
3535	OR EVSEND FH	HMP NA EVENTS
3536	OR EVSEND ORG	HMP XQOR EVENTS
3537	OR EVSEND PS	HMP NA EVENTS
3539	OR EVSEND GMRC	HMP NA EVENTS
4717	DG FIELD MONITOR	HMP DG UPDATES
4929	DGPF ASSIGN FLAG	HMP DGPF ASSIGN FLAG

**Table 3-13 VistA Functional Areas/Protocol List/Subscribers**

VistA Package	Name	Item
Patient Registration	VAFC ADT-A04 SERVER	RG ADT-A04 TRIGGER VBECs ADT-A04 CLIENT HMP ADT-A04 CLIENT
Patient Registration	VAFC ADT-A08 SERVER	RG ADT-A08 TRIGGER VBECs ADT-A08 CLIENT HMP ADT-A08 CLIENT

## C.6. Security Keys Associated

Table 3-13 lists the security keys associated.

**Table 3-14 Associated Security Keys**

Security Key Name
HMP ADMIN
HMP EXPERIMENTAL

### Templates Associated:

- There are no templates associated with eHMP.

### New Service Requests (NSRs):

- NSR #20070902

### Patient Safety Issues (PSIs):

- There are no PSI issues associated with eHMP.

**Remedy Ticket(s) and Overviews:**

- There are no Remedy tickets associated with eHMP.